Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P981453

Luminaire Tested: **FFX-CLB-80-722-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981453
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-722-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10130 lumens
Efficiency:	N/A
Efficacy:	123.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B3 - U4 - G3

Input Watts (W):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

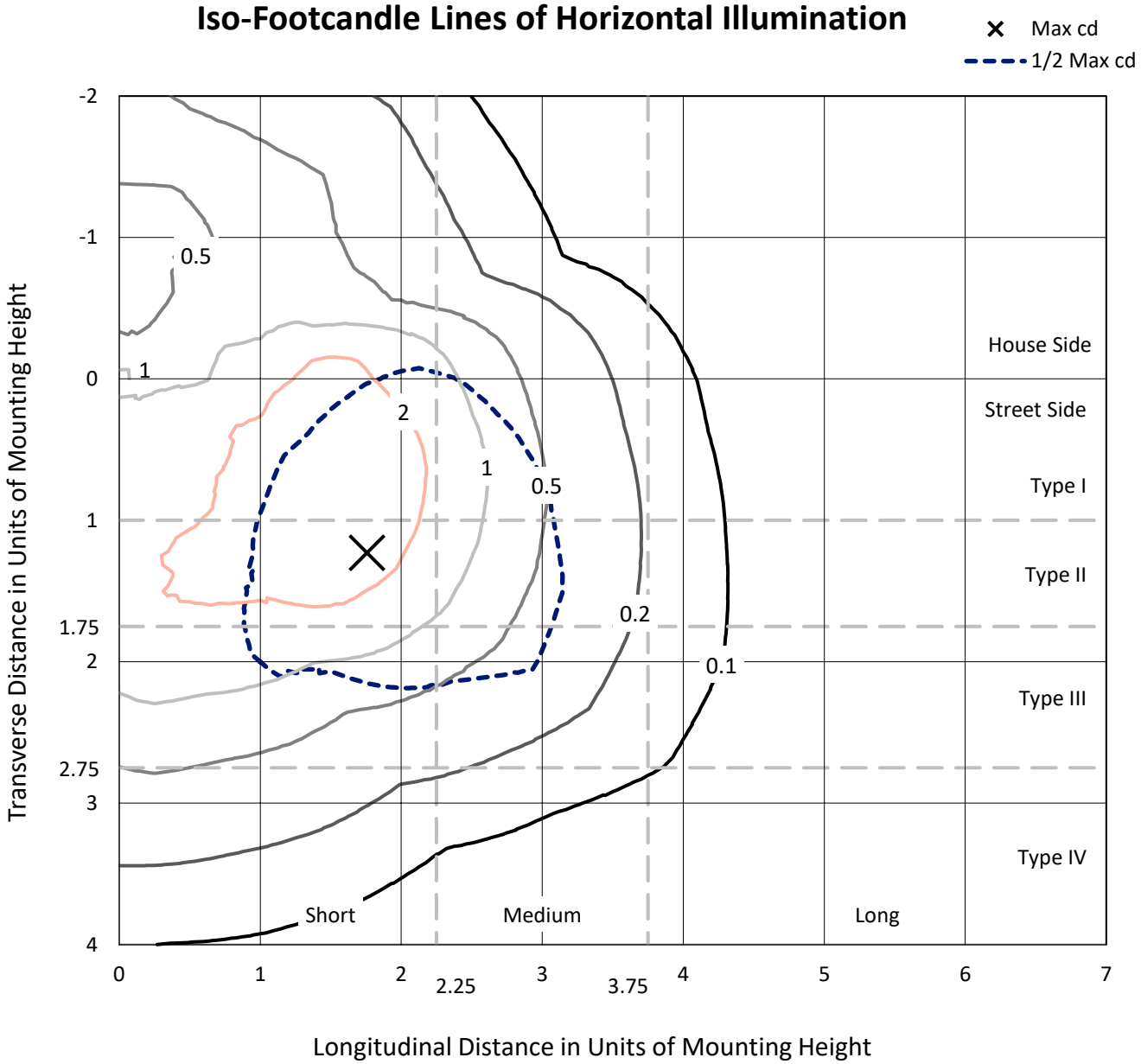


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Iso-Footcandle Lines of Horizontal Illumination



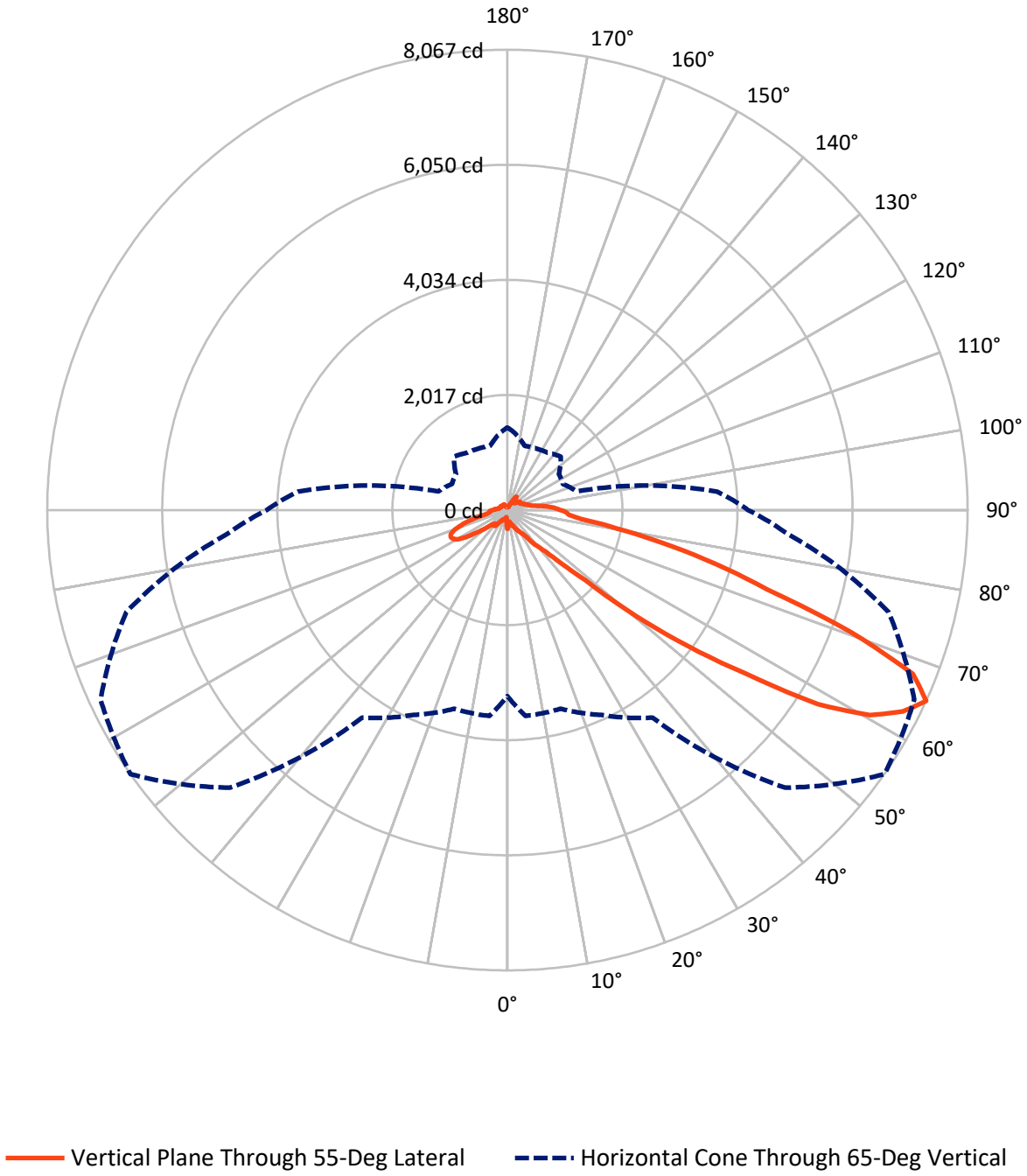
Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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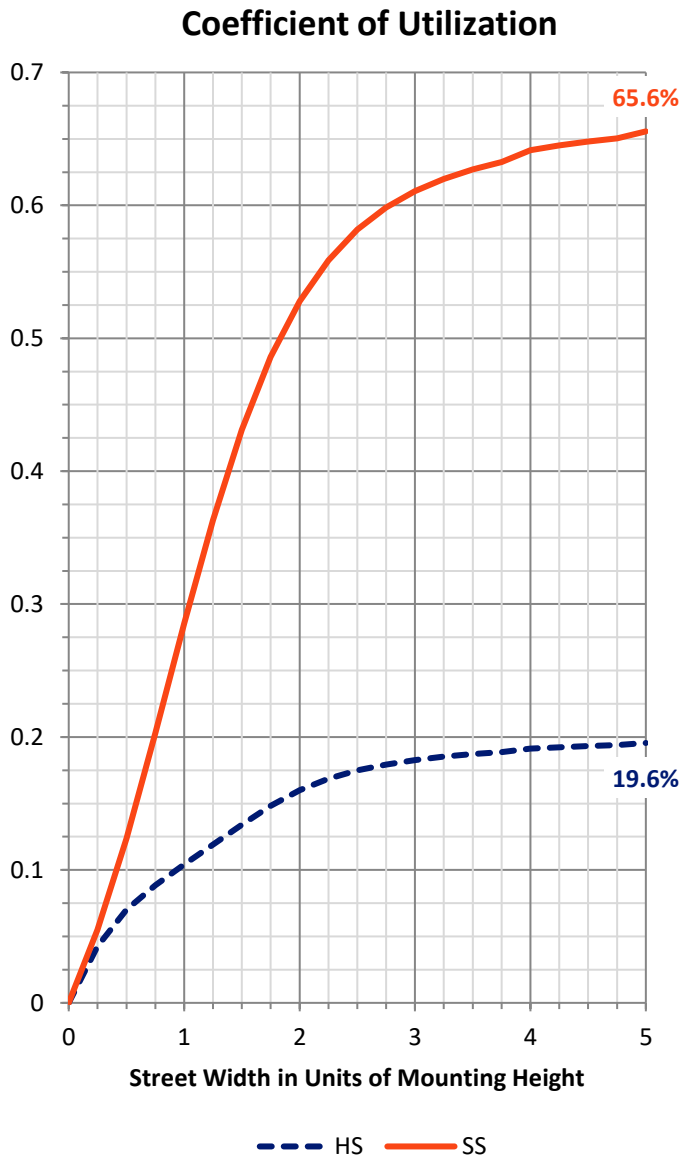
REPORT NUMBER: P981453
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2057.9	401.6	2459.5
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	6866.9	803.6	7670.5
	% Fixture	67.8	7.9	75.7
Total	Lumens	8924.9	1205.2	10130.0
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.2
10°-20°	61.9	0.6
20°-30°	126.6	1.3
30°-40°	274.6	2.7
40°-50°	666.4	6.6
50°-60°	2080.6	20.5
60°-70°	3306.0	32.6
70°-80°	1761.8	17.4
80°-90°	627.8	6.2
90°-100°	381.9	3.8
100°-110°	226.1	2.2
110°-120°	176.5	1.7
120°-130°	147.2	1.5
130°-140°	107.6	1.1
140°-150°	98.9	1.0
150°-160°	44.7	0.4
160°-170°	17.1	0.2
170°-180°	5.0	0.0
0°-90°	8924.9	88.1
0°-180°	10130.0	100.0



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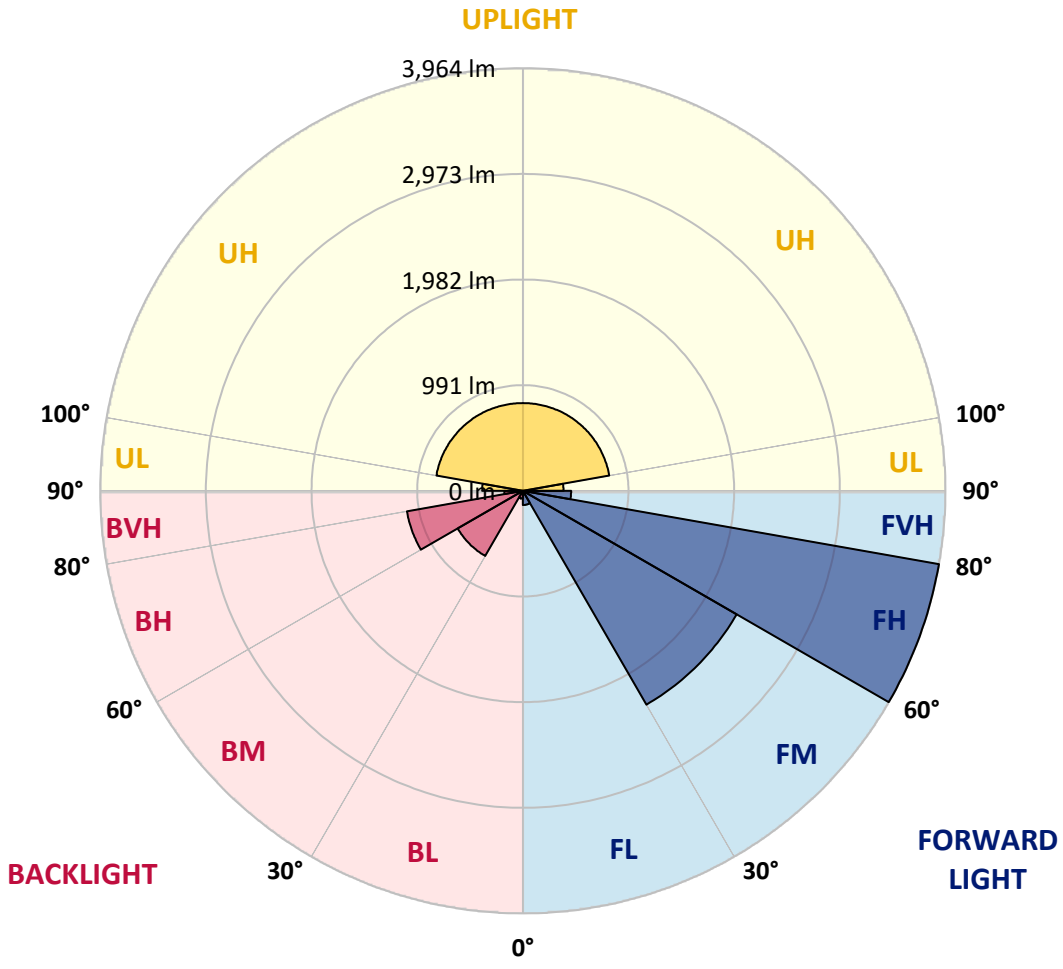
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	133.9	1.3			
FM	(30°-60°)	2316.3	22.9			
FH	(60°-80°)	3963.8	39.1			G2/5000
FVH	(80°-90°)	453.0	4.5			G3/500
BL	(0°-30°)	73.7	0.7	B0/110		
BM	(30°-60°)	705.4	7.0	B1/1000		
BH	(60°-80°)	1104.0	10.9	B3/2500		G3/2500
BVH	(80°-90°)	174.8	1.7			G2/225
UL	(90°-100°)	381.9	3.8		U3/500	
UH	(100°-180°)	823.3	8.1		U4/1000	

BUG Rating: B3-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	328.7	328.7	328.7	328.7	328.7	328.7	*328.7*	328.7	328.7	328.7	328.7
2.5°	196.2	197.6	219.6	236.7	258.0	251.8	*251.8*	298.5	329.4	374.6	370.5
5°	210.0	201.0	205.2	220.3	249.1	262.8	*247.7*	196.2	162.6	176.3	192.8
7.5°	229.9	227.8	223.0	208.6	197.6	227.1	*268.3*	238.8	180.5	151.6	145.5
10°	235.4	236.0	234.7	236.0	241.5	228.5	*205.2*	186.6	181.1	178.4	176.3
12.5°	284.8	284.1	286.8	283.4	270.3	254.6	*259.4*	245.6	218.9	200.4	195.6
15°	332.1	330.7	330.0	317.0	295.7	270.3	*258.0*	264.2	247.0	225.7	216.1
17.5°	351.3	351.3	337.6	319.1	306.0	288.2	*278.6*	271.7	258.7	245.0	233.3
20°	343.8	343.1	329.4	321.8	323.2	314.9	*306.7*	296.4	283.4	261.4	247.0
22.5°	339.6	339.6	334.8	332.8	344.5	341.7	*339.6*	326.6	309.5	277.2	258.7
25°	366.4	364.4	358.2	358.2	369.2	378.1	*381.5*	371.2	343.1	294.4	277.2
27.5°	392.5	391.8	383.6	385.6	392.5	410.3	*415.8*	411.0	372.6	308.8	293.7
30°	424.0	419.2	412.4	424.7	423.4	448.1	*455.6*	461.1	412.4	338.3	320.4
32.5°	457.7	454.9	449.4	465.2	470.7	493.3	*499.5*	527.0	466.6	391.1	372.6
35°	514.6	512.6	527.0	557.8	557.2	599.7	*583.2*	624.4	567.5	486.5	468.0
37.5°	771.2	759.6	743.1	713.6	711.5	770.6	*752.0*	784.3	704.0	590.1	569.5
40°	802.8	800.7	793.2	759.6	740.4	841.2	*853.6*	949.0	816.5	686.2	646.4
42.5°	784.3	787.0	887.9	909.2	870.1	994.2	*1014.8*	1182.3	943.5	832.3	759.6
45°	945.5	949.6	982.6	997.7	994.9	1307.1	*1357.9*	1563.1	1165.8	1037.5	903.0
47.5°	1082.8	1068.4	1128.0	1243.3	1322.2	1674.9	*1838.2*	2153.2	1566.5	1377.1	1128.0
50°	1487.6	1484.2	1628.3	1754.5	1832.7	2409.8	*2912.8*	3258.6	2295.9	1996.7	1574.1
52.5°	1762.1	1878.7	2016.6	2308.9	2379.6	3279.2	*3959.8*	4237.0	3172.8	2622.5	2149.1
55°	2040.6	2208.8	2363.1	2818.1	3052.7	4260.4	*5035.0*	5111.2	4167.1	3188.6	2711.7
57.5°	2558.7	2842.1	2941.6	3304.6	3647.6	5391.2	*6418.4*	6337.4	5192.2	3845.2	3340.2
60°	3027.3	3368.4	3339.5	3695.0	4136.2	6312.7	*7296.6*	7211.6	6130.2	4428.5	3823.3
62.5°	3184.5	3528.2	3489.1	3876.1	4440.1	6806.7	*7775.6*	7630.1	6744.3	4802.4	4090.9
65°	*3257.9*	*3622.9*	*3603.7*	*3964.6*	*4440.1*	*6878.1*	*8067.2*	*7868.2*	*6915.8*	*4946.5*	*4219.9*
67.5°	3193.4	3545.4	3557.7	3878.2	4178.7	6362.8	*7669.2*	7398.9	6486.3	4600.7	3989.3
70°	2791.3	3037.6	3006.8	3297.0	3326.5	5093.4	*6364.8*	6070.5	5269.7	3836.3	3301.1
72.5°	2306.2	2365.9	2340.5	2523.7	2558.0	3730.7	*4757.2*	4590.4	3935.1	2854.4	2522.3
75°	1838.9	1829.3	1881.5	1924.0	1888.3	2738.5	*3767.0*	3577.6	2911.4	2149.7	1941.1
77.5°	1272.1	1198.7	1336.0	1349.0	1292.7	1821.1	*2779.0*	2706.9	2086.6	1584.3	1430.6
80°	715.0	723.2	821.3	879.7	859.1	1158.9	*1933.6*	1886.3	1425.2	1107.5	984.0
82.5°	551.7	576.4	622.3	666.3	637.4	886.5	*1307.8*	1311.3	1042.3	809.0	739.0
85°	606.6	619.6	625.8	627.2	604.5	824.1	*1084.1*	1069.7	885.1	677.2	655.3
87.5°	591.5	605.2	607.3	607.9	588.0	785.0	*1026.5*	1003.9	844.0	650.5	616.9
90°	507.1	530.4	533.1	551.0	527.7	701.3	*903.7*	881.0	761.0	586.7	555.1
92.5°	435.7	448.1	461.1	482.4	457.7	610.7	*809.0*	780.9	681.4	530.4	487.2
95°	398.7	405.5	416.5	424.7	395.9	518.7	*676.6*	647.0	553.0	426.8	388.4
97.5°	320.4	326.6	331.4	341.7	321.8	411.0	*524.9*	497.5	433.7	339.6	310.8
100°	273.8	277.9	283.4	290.2	273.8	344.5	*430.9*	418.6	360.9	286.8	268.3
102.5°	250.4	253.9	263.5	263.5	253.2	314.9	*384.9*	375.3	324.6	260.1	247.7
105°	241.5	242.2	250.4	247.0	240.2	293.7	*358.9*	346.5	304.0	247.0	232.6
107.5°	229.9	230.6	240.8	235.4	229.9	272.4	*325.2*	319.8	281.3	230.6	218.2
110°	218.2	220.3	233.3	228.5	225.1	255.9	*304.7*	294.4	269.0	223.0	212.7

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REPORT NUMBER: P981453
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.3	210.7	223.0	219.6	216.8	245.0	*282.7*	282.7	262.8	223.0	209.3
115°	201.7	204.5	214.8	207.9	203.1	230.6	*260.7*	262.1	245.6	212.7	199.0
117.5°	188.7	194.9	200.4	203.1	197.6	220.9	*247.7*	246.3	237.4	205.2	195.6
120°	214.8	210.0	214.1	218.9	210.0	228.5	*251.1*	251.1	242.2	201.7	193.5
122.5°	224.4	217.5	221.6	216.8	216.1	240.2	*268.3*	270.3	251.8	207.9	187.3
125°	199.0	196.2	191.4	190.1	195.6	218.2	*243.6*	252.5	232.6	199.0	175.0
127.5°	170.2	166.7	160.6	164.0	174.3	196.9	*210.0*	214.8	206.5	184.6	166.7
130°	157.1	156.4	161.2	167.4	175.7	194.9	*199.0*	205.8	205.8	179.8	169.5
132.5°	143.4	144.1	159.2	180.5	186.6	190.8	*181.8*	194.9	201.0	183.2	171.5
135°	141.3	142.0	150.3	167.4	168.1	170.9	*171.5*	188.0	192.1	175.0	161.9
137.5°	154.4	154.4	148.2	151.6	159.2	179.8	*186.6*	199.7	196.2	165.4	146.2
140°	170.2	166.7	147.5	148.2	161.2	186.6	*195.6*	203.8	199.7	161.9	139.3
142.5°	140.7	142.0	145.5	158.5	173.6	231.2	*223.7*	244.3	236.0	171.5	135.9
145°	219.6	220.3	216.1	221.6	231.2	307.4	*284.1*	317.0	326.6	224.4	161.2
147.5°	240.2	242.9	235.4	230.6	258.0	281.3	*255.3*	282.7	301.2	235.4	172.9
150°	187.3	186.6	181.8	188.7	207.2	205.8	*192.1*	201.7	209.3	179.8	148.2
152.5°	133.1	131.1	128.3	129.0	151.0	145.5	*141.3*	149.6	149.6	137.9	118.7
155°	110.5	110.5	109.1	112.5	124.9	115.3	*111.8*	110.5	109.1	105.7	98.1
157.5°	93.3	95.4	93.3	97.4	105.7	96.7	*94.7*	92.6	93.3	93.3	91.3
160°	77.5	77.5	76.2	83.0	85.8	78.9	*75.5*	74.1	74.1	78.2	78.2
162.5°	65.2	65.2	65.9	68.6	70.7	65.9	*63.8*	63.8	65.9	72.0	72.0
165°	56.3	56.3	57.0	59.0	60.4	57.6	*56.3*	57.0	62.4	67.9	67.9
167.5°	51.5	51.5	51.5	52.1	52.8	51.5	*51.5*	54.2	59.0	62.4	62.4
170°	48.7	48.7	48.0	48.7	48.7	48.7	*51.5*	54.2	56.3	56.3	56.3
172.5°	49.4	49.4	48.7	49.4	49.4	48.7	*52.1*	55.6	54.2	53.5	53.5
175°	50.8	50.8	50.8	51.5	51.5	50.1	*49.4*	50.8	52.1	52.1	51.5
177.5°	50.8	50.8	50.1	50.8	50.1	48.7	*48.0*	47.3	47.3	46.7	46.7
180°	47.3	47.3	47.3	47.3	47.3	47.3	*47.3*	47.3	47.3	47.3	47.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7
2.5°	335.5	289.6	255.3	282.0	341.0	370.5	341.0	259.4	182.5	159.9
5°	201.0	195.6	176.3	172.2	179.8	172.9	192.1	181.8	144.1	145.5
7.5°	150.3	181.8	175.7	125.6	117.3	109.8	116.0	132.4	136.5	127.6
10°	174.3	157.1	137.2	127.6	139.3	150.3	142.7	124.2	107.0	102.2
12.5°	192.1	190.8	192.8	172.9	142.0	131.1	126.9	136.5	166.1	172.9
15°	206.5	190.8	176.3	172.2	151.6	140.7	135.2	132.4	126.9	122.8
17.5°	220.9	194.9	179.1	163.3	153.0	142.7	131.1	124.9	124.2	124.9
20°	230.6	206.5	188.0	170.2	157.1	143.4	131.7	126.3	126.3	126.3
22.5°	242.2	218.9	199.0	176.3	161.2	146.2	136.5	131.1	130.4	130.4
25°	261.4	235.4	212.0	187.3	170.9	157.1	144.1	137.2	135.2	134.5
27.5°	283.4	254.6	226.4	201.0	183.9	168.8	151.6	141.3	138.6	137.9
30°	311.5	278.6	242.9	216.1	194.9	180.5	159.9	147.5	142.0	141.3
32.5°	357.5	314.3	267.6	238.1	212.7	193.5	170.9	155.8	146.8	144.8
35°	446.0	393.2	323.2	280.6	240.2	210.0	180.5	160.6	151.6	150.3
37.5°	544.8	464.5	396.6	347.2	297.8	247.0	195.6	168.1	157.1	155.1
40°	587.4	511.2	439.1	361.6	350.6	310.8	240.2	186.6	164.7	161.2
42.5°	680.7	572.3	474.8	319.8	345.1	343.1	296.4	228.5	185.3	177.0
45°	801.4	651.2	528.3	341.7	347.9	335.5	304.0	264.2	225.1	216.1
47.5°	998.4	728.0	545.5	384.3	391.1	361.6	318.4	278.6	250.4	247.0
50°	1425.8	953.8	608.6	465.2	487.2	419.2	365.7	331.4	297.8	291.6
52.5°	1938.4	1130.1	673.8	580.5	659.4	562.0	481.0	417.9	415.8	407.6
55°	2478.4	1198.0	760.3	707.4	830.3	745.9	666.9	609.3	638.8	641.6
57.5°	3085.0	1270.8	885.1	873.5	1037.5	903.0	836.4	852.2	1061.5	1143.1
60°	3489.1	1330.5	992.9	1010.7	1226.9	1095.8	1045.7	1080.7	1436.1	1585.0
62.5°	3668.9	1300.3	1045.7	1076.6	1308.5	1213.1	1204.9	1223.4	1524.6	1663.9
65°	*3693.6*	*1255.7*	*1074.5*	*1101.3*	*1322.9*	*1225.5*	*1190.5*	*1164.4*	*1364.8*	*1446.4*
67.5°	3390.3	1161.0	1051.9	1080.0	1257.7	1141.1	1053.9	994.9	1110.9	1119.1
70°	2759.1	1036.8	975.0	985.3	1074.5	955.1	872.8	822.0	848.8	837.8
72.5°	2139.5	914.0	868.7	844.7	871.4	769.2	671.8	645.7	671.1	659.4
75°	1625.5	816.5	766.4	685.5	729.4	592.2	483.7	460.4	471.4	455.6
77.5°	1195.3	658.0	599.7	507.1	567.5	429.5	326.6	302.6	306.7	291.6
80°	872.1	486.5	438.5	363.7	409.0	305.3	236.0	231.9	231.2	221.6
82.5°	673.8	386.3	350.6	312.9	320.4	269.7	223.7	216.8	216.8	202.4
85°	625.1	374.0	337.6	310.8	312.9	261.4	212.7	208.6	210.7	195.6
87.5°	583.9	365.7	336.2	304.0	288.2	236.7	191.4	196.2	197.6	184.6
90°	500.9	325.2	298.5	267.6	249.1	201.0	171.5	180.5	181.8	170.2
92.5°	439.1	279.3	256.6	232.6	224.4	188.7	164.7	171.5	171.5	161.2
95°	349.9	228.5	218.2	206.5	204.5	176.3	153.7	157.1	155.8	146.8
97.5°	284.8	198.3	189.4	178.4	171.5	151.0	135.2	138.6	139.3	133.1
100°	250.4	183.2	170.9	158.5	151.6	135.9	123.5	129.7	133.8	128.3
102.5°	234.0	175.0	161.2	148.2	142.7	128.3	116.6	122.1	127.6	122.8
105°	222.3	168.8	154.4	142.7	135.9	121.5	109.8	111.2	118.0	115.3
107.5°	207.2	168.8	150.3	138.6	130.4	117.3	103.6	102.2	106.4	105.7
110°	201.7	168.8	147.5	135.9	126.9	115.3	102.9	97.4	99.5	99.5

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P981453
CATALOG NUMBER: FFX-CLB-80-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	196.9	167.4	144.8	131.1	123.5	113.9	101.6	93.3	95.4	96.7
115°	185.9	154.4	136.5	122.1	114.6	104.3	96.1	89.9	90.6	91.9
117.5°	179.8	142.7	132.4	119.4	113.9	107.7	100.2	88.5	88.5	89.9
120°	179.8	140.7	135.9	131.1	128.3	118.0	105.7	88.5	86.5	86.5
122.5°	177.0	156.4	148.2	137.2	129.7	116.0	100.9	86.5	85.1	85.1
125°	162.6	149.6	136.5	123.5	114.6	103.6	94.7	87.1	84.4	84.4
127.5°	155.1	134.5	122.1	111.8	105.7	100.2	94.7	87.1	83.7	83.0
130°	157.1	135.9	120.1	111.8	107.0	101.6	95.4	85.8	80.3	79.6
132.5°	158.5	131.1	116.0	109.1	105.7	101.6	93.3	81.0	74.8	74.8
135°	143.4	118.0	111.2	106.4	104.3	100.9	88.5	76.9	72.0	71.4
137.5°	130.4	114.6	109.8	105.0	101.6	96.7	87.1	75.5	69.3	68.6
140°	124.9	111.8	105.0	96.1	91.9	82.3	75.5	68.6	66.6	65.9
142.5°	118.7	105.0	96.7	89.2	87.1	83.7	79.6	68.6	61.8	61.8
145°	142.0	126.3	116.6	109.1	99.5	92.6	79.6	65.9	57.0	55.6
147.5°	148.9	134.5	124.9	114.6	96.7	81.7	67.2	57.6	54.2	52.8
150°	130.4	118.0	107.7	96.7	81.0	70.7	61.1	54.9	53.5	53.5
152.5°	103.6	96.7	85.8	78.2	67.9	61.8	56.3	52.8	51.5	51.5
155°	85.8	80.3	74.1	67.9	62.4	58.3	54.9	52.1	50.8	50.8
157.5°	83.0	74.8	69.3	63.8	60.4	56.3	53.5	50.8	50.1	49.4
160°	75.5	65.9	61.1	57.6	57.0	55.6	53.5	51.5	50.8	50.1
162.5°	70.0	60.4	57.0	54.9	57.0	58.3	57.0	54.2	52.1	51.5
165°	65.9	57.0	54.2	54.2	58.3	60.4	57.0	54.2	54.2	53.5
167.5°	61.1	58.3	54.9	54.2	57.6	61.8	62.4	57.6	55.6	54.9
170°	57.0	57.6	57.6	55.6	56.3	59.7	61.1	59.7	57.0	56.3
172.5°	54.2	55.6	58.3	57.0	57.0	58.3	59.7	58.3	56.3	55.6
175°	51.5	52.1	50.8	51.5	53.5	55.6	54.9	54.2	53.5	53.5
177.5°	46.7	46.7	47.3	47.3	48.0	50.1	50.8	50.8	52.1	52.1
180°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

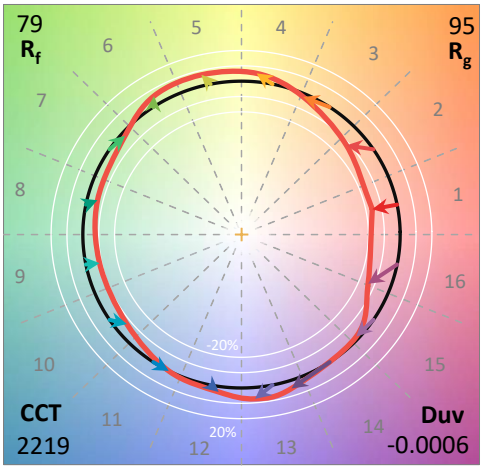
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

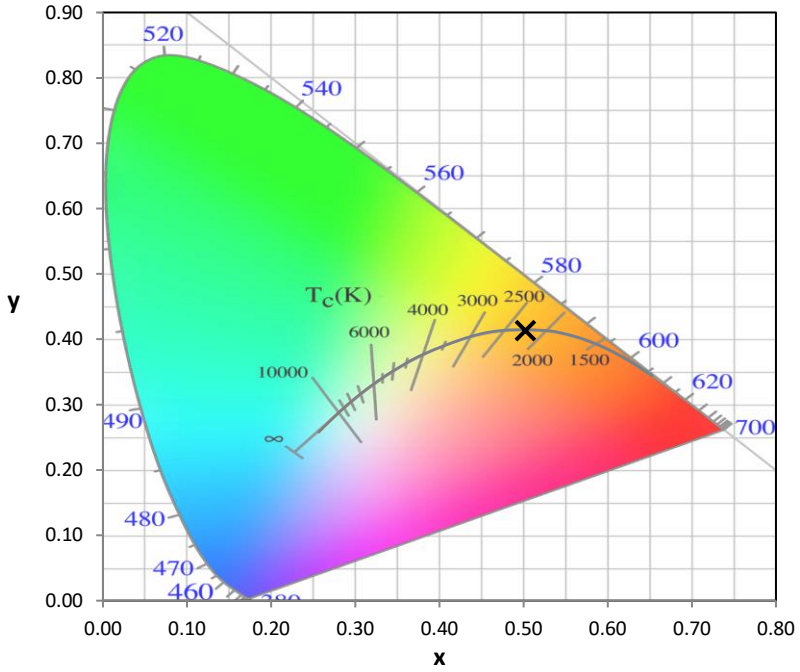
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

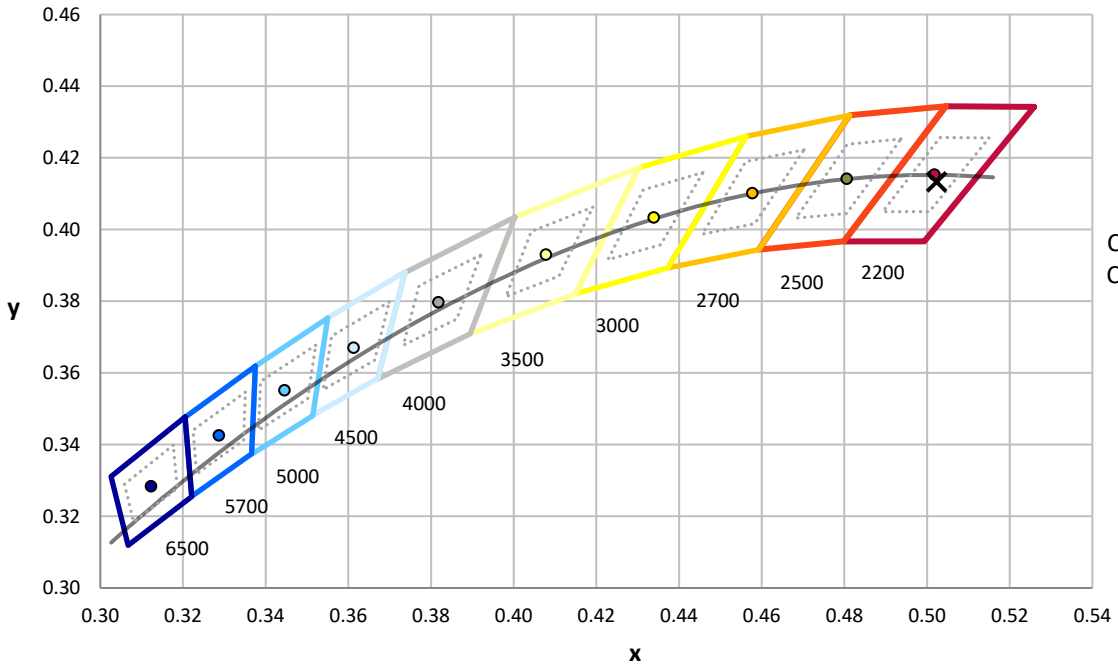
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

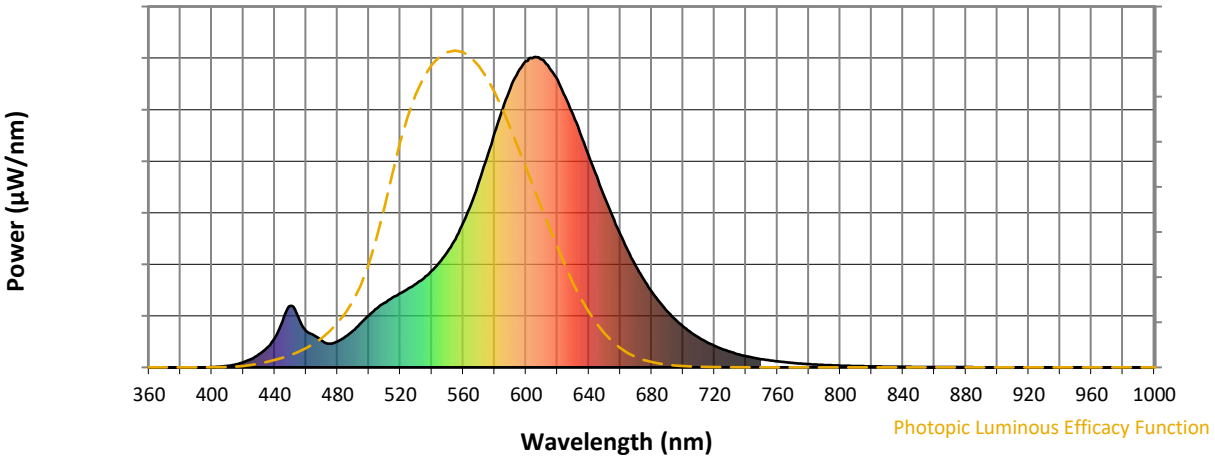


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

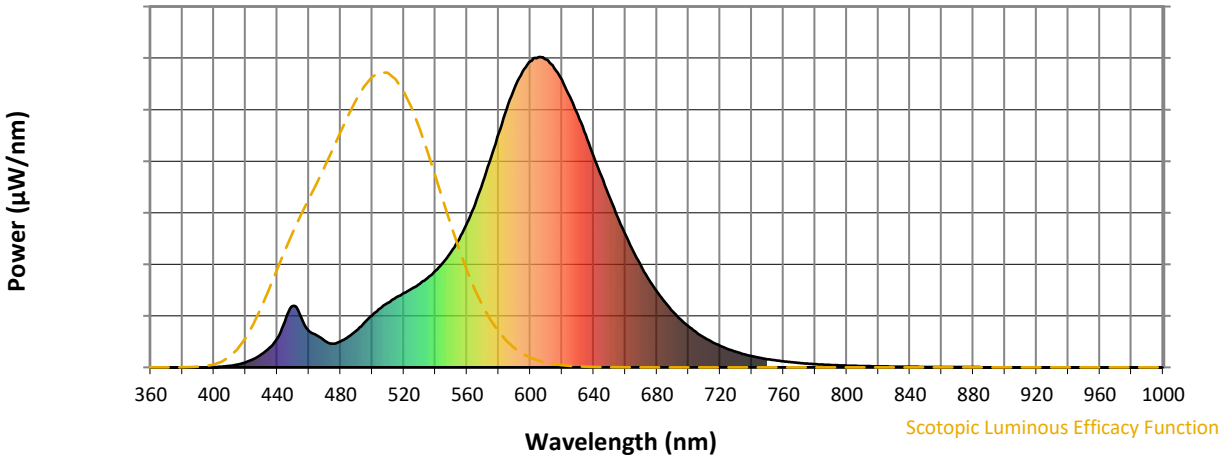


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

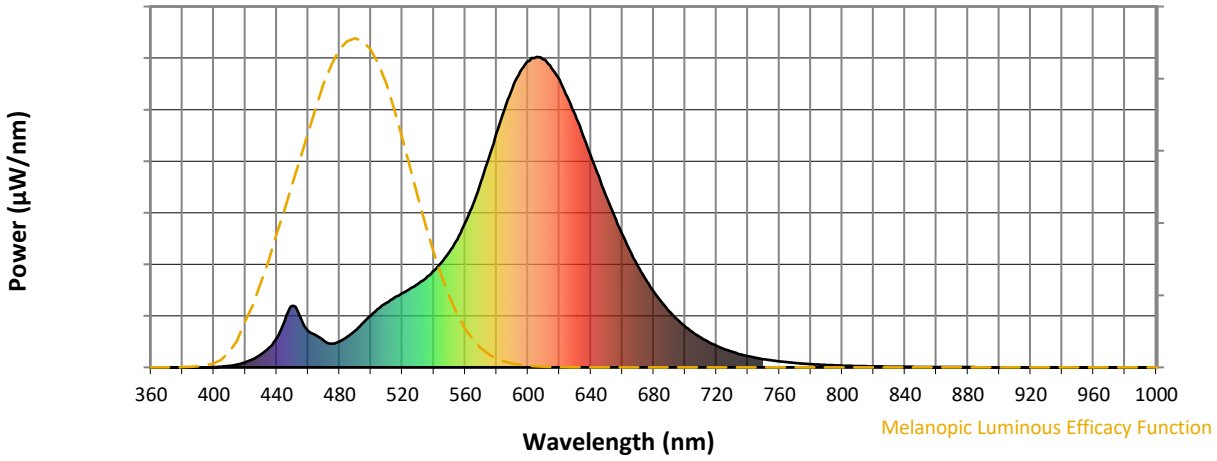


Scotopic Lumens: NR **S/P: 0.94**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

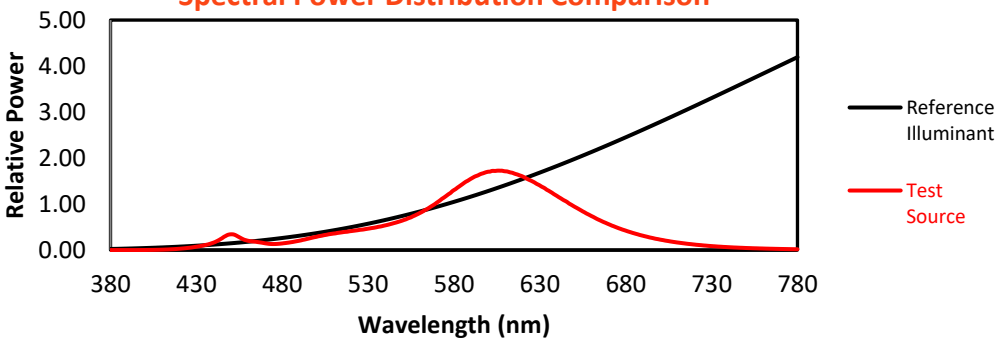
REPORT NUMBER: SP1-2501-332-2

TM-30-18

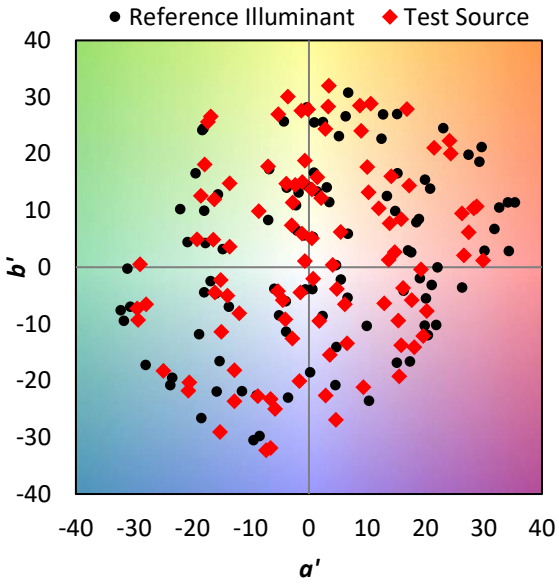
Summary

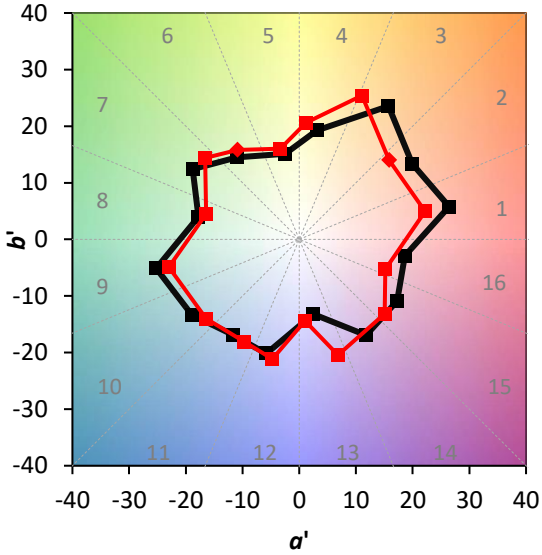
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

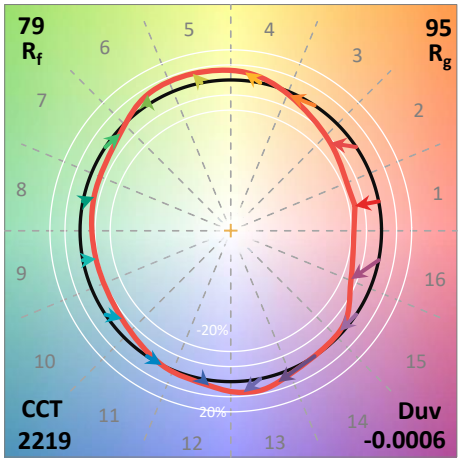
Spectral Power Distribution Comparison

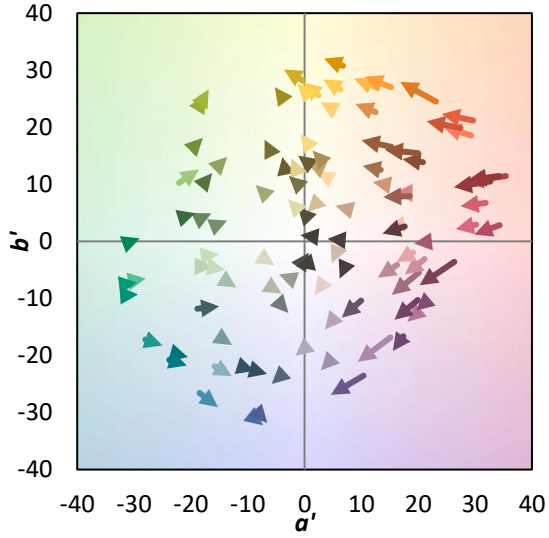


Color Vector Graphics







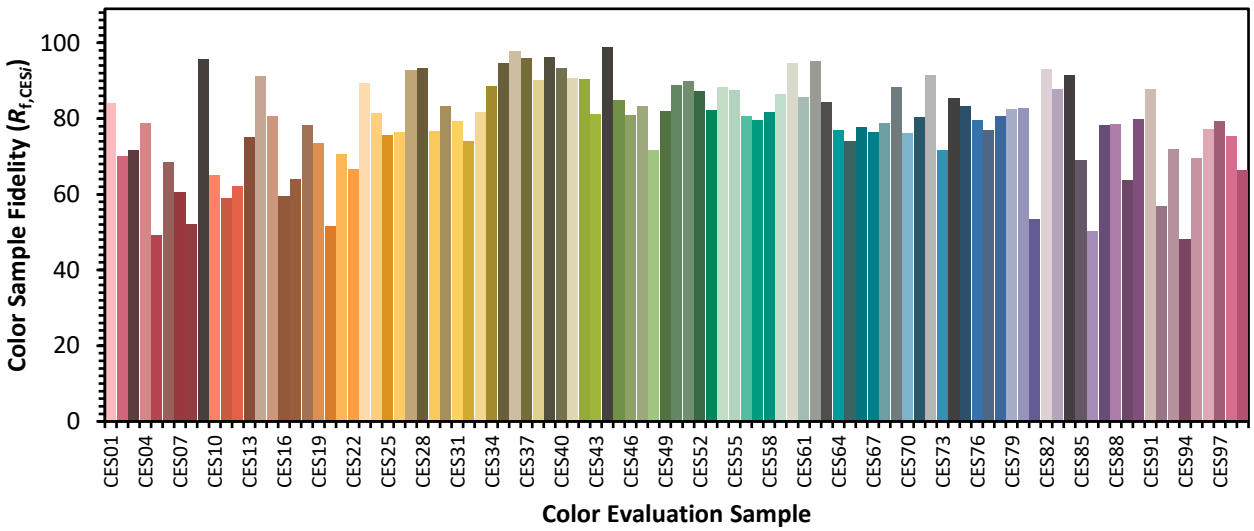


REPORT NUMBER: SP1-2501-332-2

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

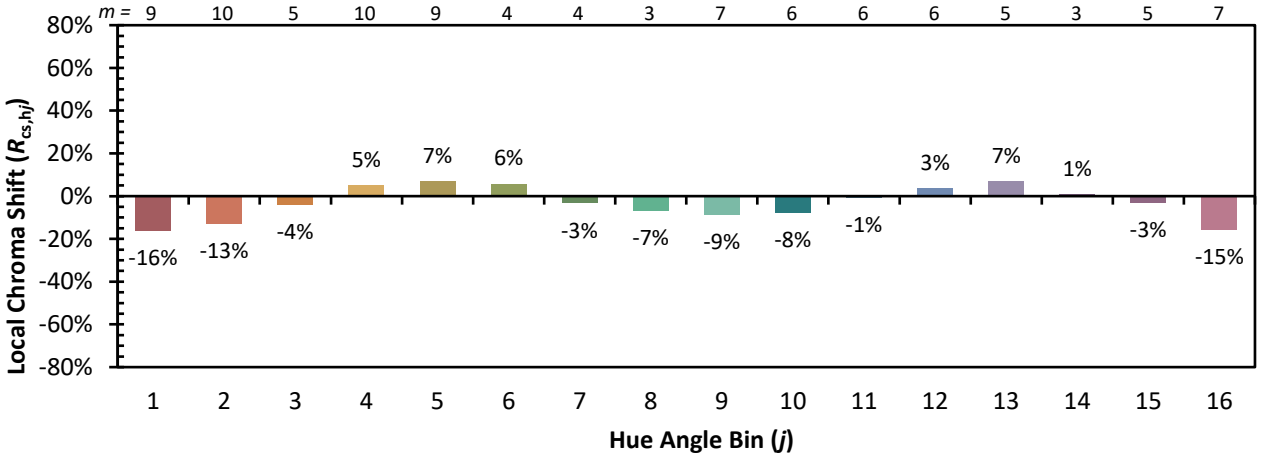
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

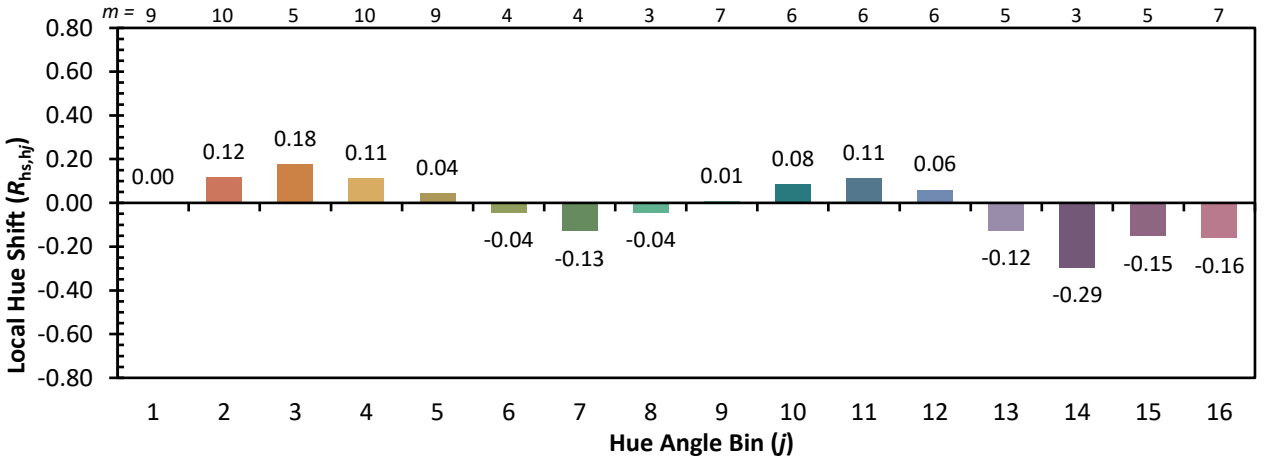


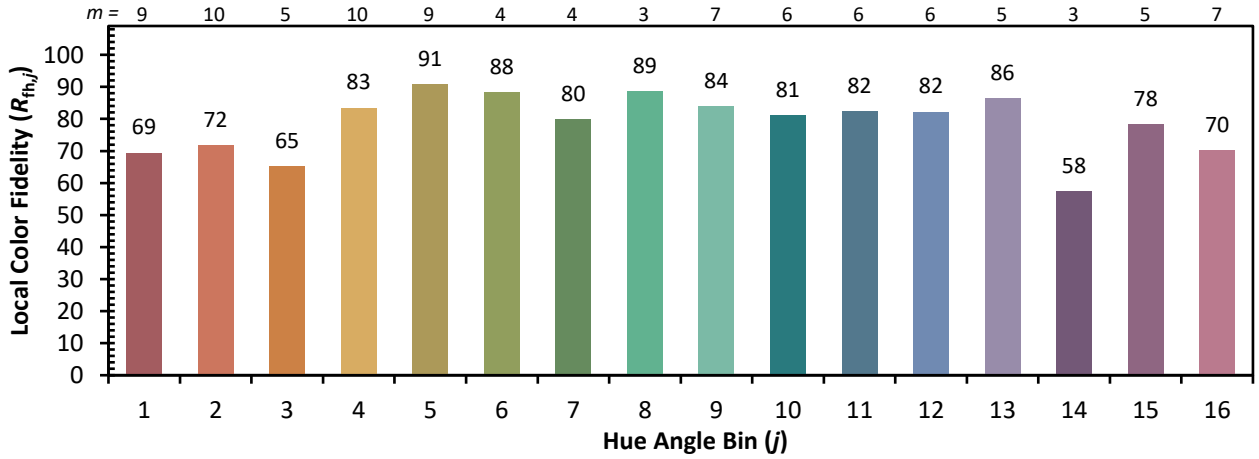
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Color Rendition by Hue-Angle Bin



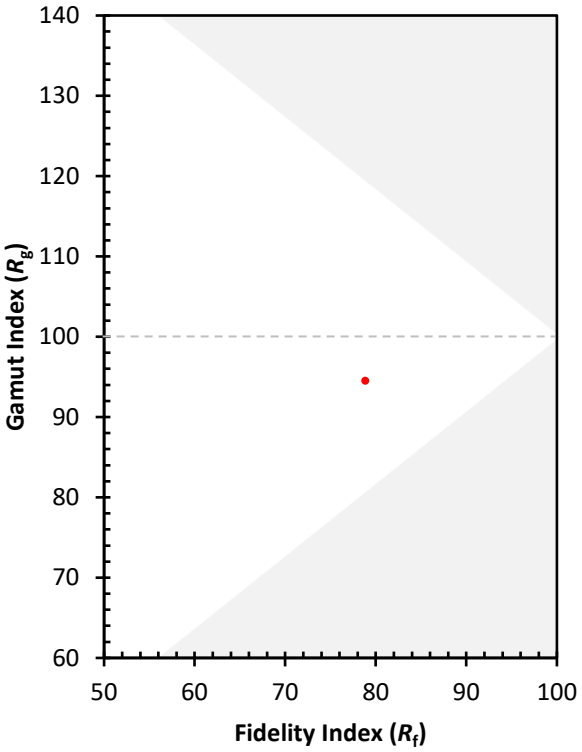


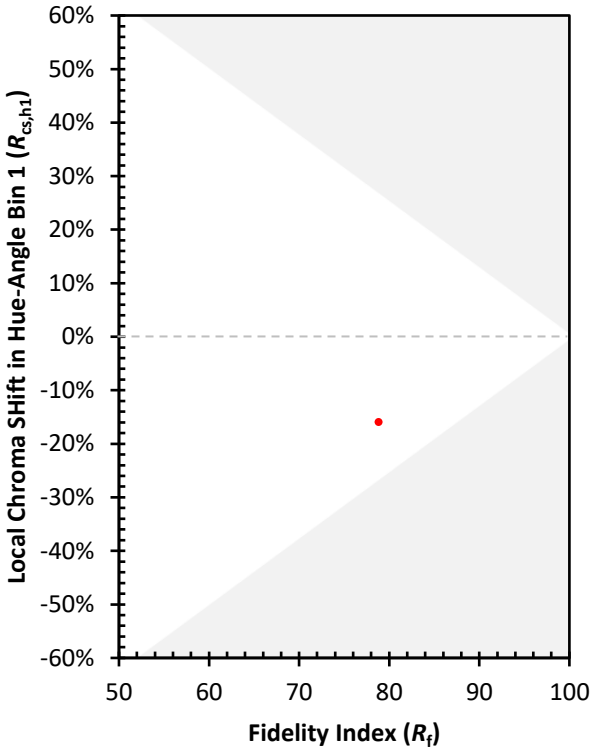


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Measure Comparisons





(END OF REPORT)